SBR No. 75/20-21
DATED 27-1-2021

Original/Duplicate/Triplicate

# CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR No. 75/20-21

Dt. 27-1-2021

No. 1st & Final bill
Date.....2010

Division: **Electrical (yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-007-19-000103**

Schedule Docket No. Head of Account : P-CODE:P 0287 D.R.No. :

**Name of Work:-** *Upgradation/emergency repairs to the Crematorium at Hebbal, Kempapura Ward-No 07* Name of Contractor and Full Address: **M/s S.S.G Electricals**

Reference to Agreement No:EE/Ele/YZ/WO/000023/20-21 Date: 19/06/2020

Certified that the measurements were taken by me on 15/12/2020 and recorded of Pages 256952 to 6954 of measurement Book No. 2570/19-20 and that the work is satisfactorily executed.

For S S G ELECTRICALS

Proprietor

**Contractor**

**Officer-in-charge of work**

Certified that the measurement were taken by me on ..15/12/20.....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)

**Sub-Division Officer**

II Memorandum of Payment

BBMP, Bangalore

| | | |
|---|---|---|
| 1) | Total value of work done or supplies made as per account within | Bill: 454310=00 |
| 2) | Deduct amount to be held in reserve being .....percent Rs..... | IT 1% 4543=00 |
| 3) | " Balance | LWC 1% 4543=00 |
| 4) | Deduct Payment: | CESS 1% 4543=00 |
| | a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted | Sbst 1% 3791=00 |
| | towards cash advance recovery of | Cbst 1% 3791=00 |
| | b) Payments Now made cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash. | deductions 17,122=00 |
| 5) | Balance being unpaid value of work done held in reserve. | Cheque = 437188=00 |
| 6) | Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments. | |
| 7) | Net amount due to or from Contractor unadjustments items. | |
| 8) | Advance to Contractor for materials brought to site (as detailed) within. | |
| 9) | Value of Government materials supplied. | |
| | Total amount adjusted | |

For S S G ELECTRICALS

Contractor's Signature

Proprietor

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands) (For use in the Office)

Witness
1. For S S G ELECTRICALS
2.

For S S G ELECTRICALS

Stamp

Proprietor

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P0287. M&R to Electrical

ರೂ: 454310=00 ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ವಿದ್ಯುತ್ ವಿಭಾಗ

ರೂ: 437188=00 ನಿವ್ವಳ ಪಾವತಿಗಾಗಿ

ರೂ: 17122=00 ಮುಂಗಡಪಾವತಿಗೆ ಮರುವಸೂಲಿ

**Executive Engineer**

ಲೆಕ್ಕ ಅಧಿಕ್ಷಕರು

ಕಾ.ಪಾ.ಅಭಿಯಂತರರು ವಿದ್ಯುತ್ ವಿಭಾಗ

| Sl. No | Description | Unit |
|---|---|---|
| | **Name Of Work:-** Upgradation/emergency repairs to the Crematorium at Hebbal, Kempapura Ward-No 07 | |
| 1 | Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM KPWD ELE SR 2014-15 | Per Mtr |
| 2 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. ( Icu = Ics) THREE POLE 100Amps 25kA.26/5.14.1 | Each |
| 3 | Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm | Each |
| 4 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm40/6.4.4 | Mtrs |
| 5 | Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm | Mtrs |
| 6 | Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etcIn soil (ordinary).,complete.41/6.6.1 | Mtrs |
| 7 | Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etcAsphalt cutting.,complete.41/6.6.4 | Mtrs |
| 8 | Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm 6/2.3.3 | Mtrs |
| 9 | Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Powerconsumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED SourceLED Streetlight LED Streetlight 70watts.KPWD ELE SR Page-66/12.8.3 | Each |
| 10 | Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Single bracket 1.5 Mtr. Length Page-79/14.4.1 | Each |

| Previous Measurement | | Present Measurement | | | Total Upto Date | | Remarks |
|---|---|---|---|---|---|---|---|
| Qty | Cost | Qty | Rate | Amount | Qty | Cost | |
| | | 997 | 140.00 | 139580.00 | 997 | 139580.00 | |
| | | 1 | 4000.00 | 4000.00 | 1 | 4000.00 | |
| | | 1 | 1900.00 | 1900.00 | 1 | 1900.00 | |
| | | 696 | 130.00 | 90480.00 | 696 | 90480.00 | |
| | | 696 | 30.00 | 20880.00 | 696 | 20880.00 | |
| | | 498 | 70.00 | 34860.00 | 498 | 34860.00 | |
| | | 148 | 100.00 | 14800.00 | 148 | 14800.00 | |
| | | 90 | 60.00 | 5400.00 | 90 | 5400.00 | |
| | | 13 | 5300.00 | 68900.00 | 13 | 68900.00 | |
| | | 6 | 1200.00 | 7200.00 | 6 | 7200.00 | |

| | | |
|---|---|---|
| 11 | Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit ( Mother board ) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5)Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure. 7) transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components. | No |
| | **Total Rs** | |
| | Add GST on Item No 2 to 10 Rs 248420.00 @ 12% | |
| | **Total Rs** | |

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1 | 36500.00 | 36500.00 | 1 | 36500.00 | |
| | | | | **424500.00** | | **424500.00** | |
| | | | | 29810.40 | | 29810.40 | |
| | | | | **454310.40** | | **454310.40** | |